

| <i>Req</i> | <i>Topic</i> | <i>Requirement</i> |
|-------------------|---------------------|--|
| 1 | Definition | The terms "price model" and "price and product definition" are synonomous in these requirements |
| 2 | General | The price model must be suitable for use across the entire Smart Grid |
| 3 | General | The price model work shall produce a common specification for price and product definition across the entire Smart Grid |
| 4 | General | The price model work shall build an extensible foundation for a market-based Smart Grid |
| 5 | General | The price model shall meet the immediate needs of utilities for price and product definition |
| 6 | General | The price model shall meet the immediate needs of demand response programs for price and product definition |
| 7 | General | The price model shall support a common understanding of supply and demand |
| 8 | General | The price model shall build on existing work in financial energy markets |
| 9 | General | The price model shall build on work in existing demand response programs |
| 10 | General | The price model shall integrate with [and use] schedule and interval specifications [PAP04] |
| 11 | General | The price model shall communicate actionable energy prices |
| 12 | Work | The price model work shall solicit nput from existing work and a wide group of stakeholders |
| 13 | Work | The price model work shall survey existing price communications |
| 14 | Work | The price model work shall engage the broad group of stakeholders into the effort |
| 15 | Why | Common, timely, and actionable price information enables local generation |
| 16 | Why | Common, timely, and actionable price information enables storage, such as electric-charging and thermal-storage technologies for homes and buildings |
| 17 | Why | The price model shall enable new markets |

- 18 Why The price model shall enable integration of distributed energy resources
- 19 Why A consistent price model shall enable reduced implementation costs for energy providers, distributors, and consumers
- 20 Why A consistent price model shall enable simplified communication flow among energy providers, distributors, and consumers
- 21 Why A consistent price model shall enable improved quality and efficiency of actions taken by energy providers, distributors, and consumers
- 22 Why Effective dynamic pricing requires actionable energy prices
- 23 Why Net-zero-energy buildings require actionable energy prices
- 24 Why Supply-demand integration requires actionable energy prices
- 25 Why Other efficiency and sustainability initiatives require actionable energy prices
- 26 What The price model shall support automated and timely communication of energy prices, characteristics, quantities, and related information
- 27 What The price model shall support coordination of energy supply and demand by means of exchanging price information [e.g. load following generation instead of vice versa]
- 28 What The price model shall be useful in [and enable] demand response applications
- 29 What The price model shall be useful in [and enable] ket transactions
- 30 What The price model shall be useful in [and enable] distributed energy resource integration
- 31 What The price model shall be useful in [and enable] meter communications
- 32 What The price model shall be useful in [and enable] inter-domain communications
- 33 What The price model shall allow timely and consistent communication of energy prices, characteristics, quantities, and related information
- 34 What The price model shall apply to and benefit businesses [commercial buildings]

- 35 What The price model shall apply to and benefit businesses [industrial facilities]
- 36 What The price model shall apply to and benefit homes [residential including single family and multifamily]
- 37 What The price model shall apply to and benefit electric vehicles
- 38 What The price model shall apply to and benefit the power grid
- 39 Chars Product characteristics shall include delivery schedule, quality, reliability, power quality, source, and environmental and regulatory characteristics
- 40 Chars The price model shall define how to exchange data on energy characteristics, availability, and schedules
- 41 Chars The price model shall support efficient communication of information in any market
- 42 Chars The price model shall include quotation of price, quantity, and characteristics
- 43 Chars The price model shall support quotation of price, quantity, and characteristics across markets
- 44 Chars The price model shall develop and support a summary of power reliability and quality characteristics that affect price and availability (supply side)
- 45 Chars The price model shall develop and support a summary of power reliability and quality characteristics that affect price and desirability (demand side)